

TRIODE

DESCRIPTION

The GL-6135 is a miniature medium-mu triode designed for use as a local oscillator in very-high-frequency receivers. It is also suitable for use as an audio amplifier and for use in general-purpose applications. The GL-6135 is specifically designed to assure dependable life and reliable service under the exacting conditions encountered in mobile and

aircraft applications. Features include a high degree of mechanical strength, a heater-cathode construction designed to withstand many-thousand cycles of intermittent operation, and a relatively high value of plate-to-grid insulation resistance throughout life.

TECHNICAL INFORMATION

GENERAL

Electrical Data

Cathode—Coated Unipotential		
Heater Voltage (A-c or D-c)	6.3	Volts
Heater Current	0.175	Ampere
Direct Interelectrode Capacitances	With Shield*	Without Shield
Grid to Plate	1.4	1.4 uuf
Input	1.7	1.5 uuf
Output	2.6	0.7 uuf

Mechanical Data

Mounting Position—Any
 Envelope—T-5½ Glass
 Base—Miniature Button 7-pin, E7-1



GENERAL  ELECTRIC

TECHNICAL INFORMATION (CONT'D)

MAXIMUM RATINGS

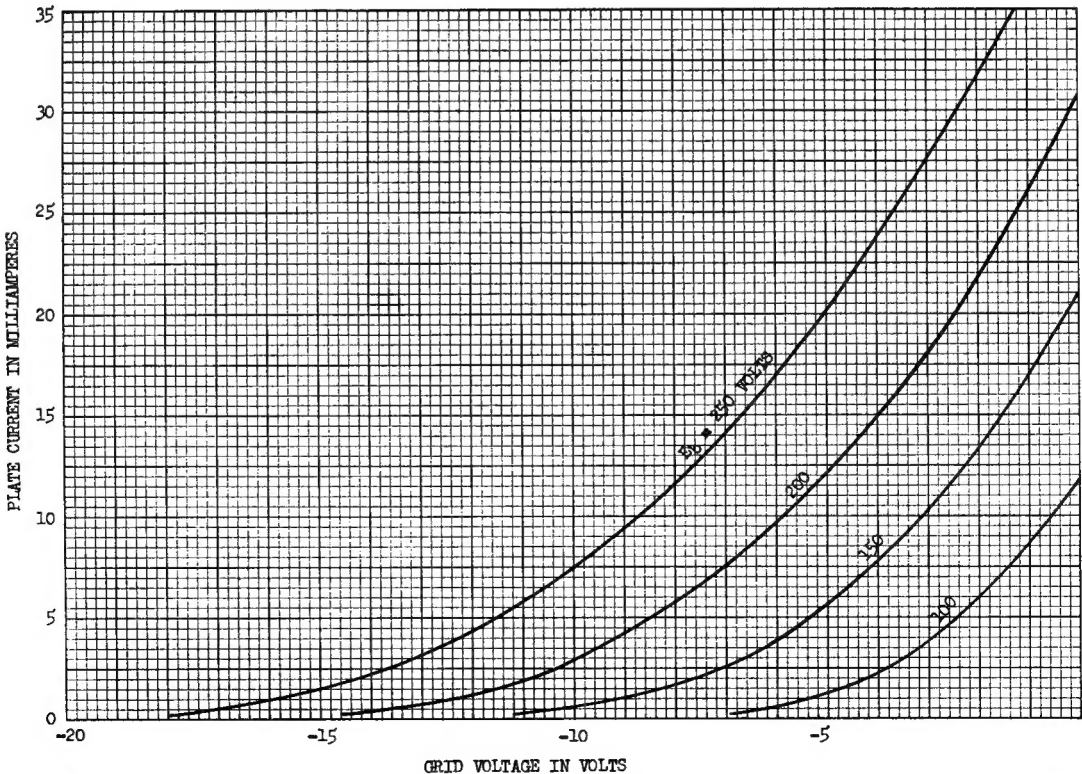
Electrical—Design Center Values		
Plate Voltage.....	300	Volts
Plate Dissipation.....	3.5	Watts
D-c Cathode Current.....	25	Milliamperes
Heater-Cathode Voltage.....	90	Volts
Grid-Circuit Resistance		
With Fixed Bias.....	0.25	Megohm
With Cathode Bias.....	1.0	Megohm
Mechanical		
Peak Impact Acceleration in Any Direction.....	600	G

CHARACTERISTICS AND TYPICAL OPERATION

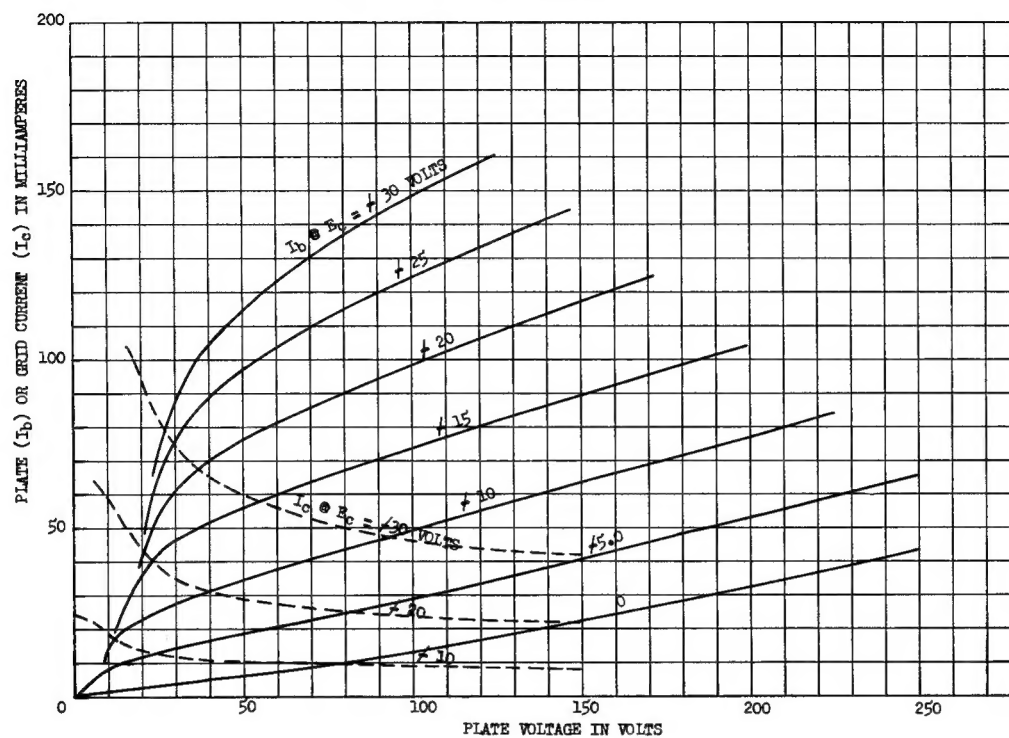
Class A ₁ Amplifier		
Plate Voltage.....	100	250 Volts
Grid Voltage.....	0	−8.5 Volts
Amplification Factor.....	19.5	17
Plate Resistance, approximate.....	6250	7700 Ohms
Transconductance.....	3100	2200 Micromhos
Plate Current.....	11.8	10.5 Milliamperes
Grid Voltage, approximate for I _b = 10 Microamperes.....		−21 Volts

* With external shield No. 316 connected to cathode.

AVERAGE CHARACTERISTICS



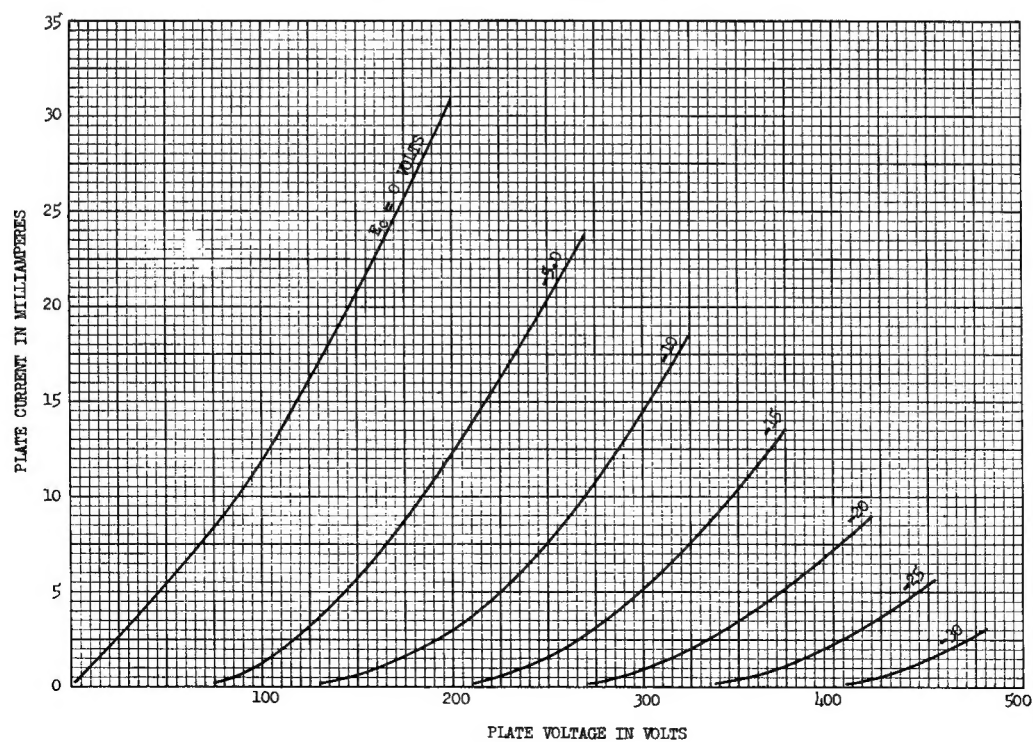
AVERAGE PLATE CHARACTERISTICS



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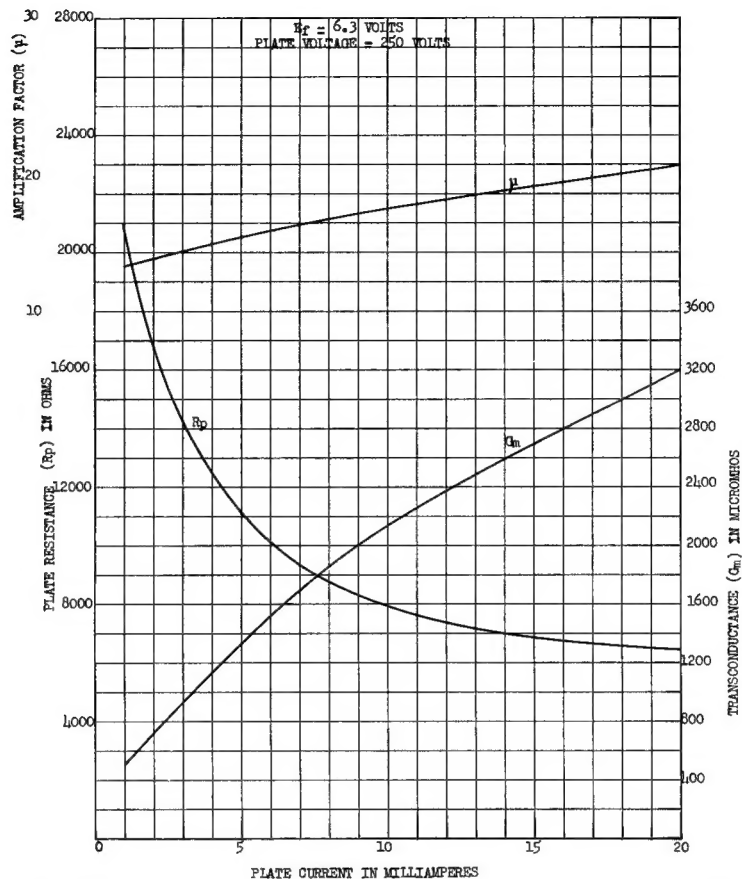
AVERAGE PLATE CHARACTERISTICS



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AVERAGE CHARACTERISTICS PLATE VOLTAGE = 250 VOLTS

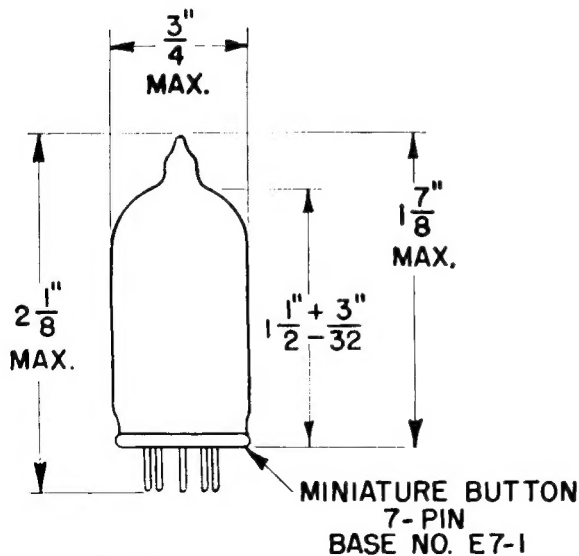


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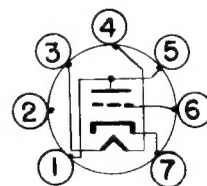
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OUTLINE

BASING DIAGRAM



K-69087-72A518



6BG

- PIN 1: PLATE
- PIN 2: INTERNAL CONNECTION
- PIN 3: HEATER
- PIN 4: HEATER
- PIN 5: PLATE
- PIN 6: GRID
- PIN 7: CATHODE

4-3-52

Tube Department

GENERAL ELECTRIC

Schenectady, N. Y.